Bruhat Bengaluru
Mahanagara Palike

BRUHAT BANGALORE MAHANAGAR PALIKE
EXCECUTIVE ENGINEER YELAHANKA ZONE PROJECT DIVISION

Project management consultancy

PMC AND INSPECTION REPORT

NAME OF WORK: Package - 04 includes 7 Works of Rs. 582.00 Lakhs: 1) Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07. 2) Improvements to Roads and drains at bhadrappa layout and balaji layout and surrounding area in ward number – 08 3) Improvements to roads and drains in Kodigehalli colony, Maruthinagara, BB Nagar and surrounding area in ward no. 08 4) Improvements to Roads and Drains in BEL Layout, HMT Layout, Rajivagandhi Nagar (NTI), Thindhu and surrounding in ward No. 09 5) Improvements to Roads and Drains in Thindlu colony, Narasipura layout, Kempegowdnagara and surrounding area in ward No. 09 6) Improvements to Roads and Drains in Muthuraya Swamy layout, Doddabomasandra, Nanjappa layout, Chamundeshwari Layout in Ward No. 10 7) Improvements to Roads and Drains in Kuvempu Nagara, Singapura, Ramachandrapura and surrounding areas in ward no-11.

TRANSHEIGHT CONSULTANTS PVT.LTD
205,10th Cross, 'G' Block
Sahakaranagar, Bangalore-560092
E-mail :transheight.consultant@gmail.com
Ph.No : 080 23629195
URL: www.transheightconsultants.com

ANNEXURE-I

QUALITY TEST REPORT

TRANSHEIGHT
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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A'Block,3rdCross, 5th Main,
Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Physical Properties of Cement-53 Grade

IS: 12269-2013, IS: 4031(Part-1,2,3,4,5,6,11)-1988	Date: 18-10-2019
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	17-10-2019
Sample Type	Birla Super 53-Grade
Date of Test	18-10-2019
Environmental Condition during test	Temperature: 26°C
	Humidity: 72%

Test Results

Sl. No	Physical Properties	Result	Requirements as per IS: 12269-2013
1	Finess by dry sieving (%)	1.94	-
2	Finess by Air permiability method (m^2/kg, Min)	284.64	225 m2
3	Specific gravity /Density, (gm/cm)	3.28	-
4	Standard Consistency (%)	29.50%	Not Specified
5	Initial Setting time	145 Minutes	Not less than 30 minutes
6	Final Setting Time	240 Minutes	Not more than 15 minutes
7	Soudness (Le Chateliers Method)	1.7 mm	Not more than 10 mm

Remarks :

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PMC Client Contractor

AE(Hqrs)

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Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Physical Properties of Cement-53 Grade

IS: 12269-2013, IS: 4031(Part-4,6)-1988	Date: 18-10-2019
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	17-10-2019
Sample Type	Birla Super 53-Grade
Date of Test	18-10-2019
Environmental Condition during test	Temperature: 26^{0}C
	Humidity: 72%

Compressive Strength

Sl. No	Physical Properties	Result	Requirements as per IS: 12269-2013
1	3 Days	29.8 N/mm^2	Not less than 27 N/mm2
2	7 Days	40.2 N/mm^3	Not less than 37 N/mm3
3	28 Days	57.6 N/mm^4	Not less than 53 N/mm4

Remarks :

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PMC Client Contractor

AE(Tech) N.D

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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 18-10-2019
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	17-10-2019
Sample Type	Fine Aggregate
Date of Test	18-10-2019

Total wt of the sample (gms):	1000

IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016			
					Grading Zone-1	Grading Zone-2	Grading Zone-3	Grading Zone-4
10	0	0	0.0	100	100	100	100	100
4.75	33	33	3.3	96.7	90-100	90-100	90-100	95-100
2.36	62	95	9.5	90.5	60-95	75-100	85-100	95-100
1.18	246	341	34.1	65.9	30-70	55-90	75-100	90100
600	213	554	55.4	44.6	15-34	35-59	60-79	80-100
300	201	755	75.5	24.5	5-20	8-30	12-40	15-50
150	186	941	94.1	5.9	0-10	0-10	0-10	0-15
PAN	59	1000	100.0	0.0	-	-	-	-

Result: The Tested Sample Conforms to Grading Zone-II

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Asst. E.E.
AE(Ast)

www.transheight.com
transheight.consultant@gmail.com

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Sahakarnagar,Bangalore-560092
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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Fine Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 18-10-2019
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	17-10-2019
Sample Type	Fine Aggregate
Date of Test	18-10-2019

Physical Properties

Sl. No	Physical Properties	Result	Requirements as per IS: 386-2016
1	Water Absorption (%)	1.52	-
2	Specific Gravity	2.49	-
3	Material Finer than 75 micron (%)	7.23	Uncrushed fine Aggregate Max 3% Crushed Fine Aggregate Max 15% Mixed Fine Aggregate Max 12% Manufacture Fine Aggregate Max 10%

Remarks :

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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3 & 4)-1963 (Reaffirmed-2012)	Date: 19-10-2019
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	17-10-2019
Sample Type	Coarse Aggregate
Date of Test	19-10-2019

Sieve Analysis (Particle Size Distribution) of 20mm Down Coarse Aggregate

Total wt of the sample (gms):			5000		
IS Sieve size (mm)	Weight retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Specifcations as per IS: 383-2016
40	0	0	0.0	100	100
20	249	249	5.0	95.0	90-100
10	2426	2675	53.5	46.5	20-55
4.75	2125	4800	96.0	4.0	0-10
PAN	200	5000	100.0	0.0	-

Remarks :

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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Coarse Aggregate

IS: 383-2016, IS: 2386 (Part-1, 3)-1963 (Reaffirmed-2012)	Date: 19-10-2019
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	17-10-2019
Sample Type	Coarse Aggregate
Date of Test	19-10-2019

Physical Properties

Sl. No	Physical Properties	Result	Requirements as per IS: 386-2016
1	Flakines Index (%)	15.36	Combined Flakiness and Elongation Index ahall nor exceed 40% for uncrushed and crushed aggregate
2	Elongation Index (%)	13.55	
3	Specific Gravity	2.56	-
4	Bulk Density (Loose) (Kg/l)	1.52	-
5	Bulk Density (Composed) (Kg/l)	1.48	-
6	Water Absorption (%)	0.25	-
7	Aggregate Crushing Value (%)	22.12	Max 30% for Aggregates to be used in concrete for wearing surfaces, In case aggregate Crushing Value exceeds 30% then the test for 10% fines should be conducted for aggregate to be used in concrete oter tha for wearing surfaces
8	Aggregate Impact Value (%)	23.17	Max 30% for aggregate to be used in concrete for wearing surfaces, 45% for aggregate to be used in concrete other than for wearing surface.

Remarks :

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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Steel

IS: 1786-2008, IS: 1608-2005 (Reaffirmed-2011), IS: 1599-2012	Date: 19-10-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	18-10-2019
Sample Type	Meenakshi
Date of Test	19-10-2019

Sl No.	Identification of Sample	Grade of the Sample	Diameter of the Steel Bar	Weight of the Sample	Yield Stress	Tensile Strength	Elongation	Bend Test	Rebend Test
			mm	kg/m	N/mm^2	N/mm^2	%		
1	Meenakshi	Fe500	8.0	0.391	512	652	20	Satisfactory	Satisfactory
2	Meenakshi	Fe500	10.0	0.616	528	672	20	Satisfactory	Satisfactory
3	Meenakshi	Fe500	12.0	0.888	544	668	20	Satisfactory	Satisfactory

Result:

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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Result on Cement Concrete Kerb Stone

IS: 516 - 1959	Date: 05-11-2019

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Date of Reciept	04-11-2019
Sample Type	CC Kerb Stone/450x165x400 mm
Date of Test	05-11-2019

Block Density

Sl. No	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive Strength	Corrected Cylinder Compressive Strength	Equivalent Cube Compressive Strength
		mm	mm	Kg	Sq mm	KN	N/mm^2	N/mm^2	N/mm^2
1	A	100.01	165.51	2.864	7857	142.1	18.1	17.4	21.72
2	B	100.03	165.49	2.793	7860	145.2	18.5	17.8	22.20
3	C	100.01	165.5	2.815	7857	145.1	18.5	17.8	22.20

Remarks :

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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Result of Precast Cover Slab

IS: 516 - 1959	Date: 05-11-2019

Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Date of Reciept	04-11-2019
Sample Type	Precast Cover Slab
Date of Test	05-11-2019

Block Density

Sl. No	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive Strength	Corrected Cylinder Compressive Strength	Equivalent Cube Compressive Strength
		mm	mm	Kg	Sq mm	KN	N/mm^2	N/mm^2	N/mm^2
1	Cover Slab-1	175.51	200.48	2.816	24196	179.25	7.41	6.8	8.45
2	Cover Slab-2	175.49	200.52	2.822	24191	183.41	7.58	6.9	8.64
3	Cover Slab-3	175.5	200.51	2.818	24194	181.17	7.49	6.8	8.54

Remarks :

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Name of Work : 1. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 30-10-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	23-10-2019
Sample Type	Drain Bottom Slab Concrete
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	30-10-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Bottom slab Concrete	M20	23-10-2019	30-10-2019	149.21x150.46 x150.66	22450	9.01	409.5	18.2	18.43
2	Drain Bottom slab Concrete	M20	23-10-2019	30-10-2019	150.85x149.46 x150.22	22546	8.487	413.7	18.3	
3	Drain Bottom slab Concrete	M20	23-10-2019	30-10-2019	150.55x149.70 x151.59	22537	8.801	421.5	18.7	

Result:

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PMC Client Contractor

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Name of Work : 1. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 20-11-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	23-10-2019
Sample Type	Drain Bottom Slab Concrete
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 28 Days Compressive Strength
Date of Test	20-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Bottom slab Concrete	M20	23-10-2019	20-11-2019	150.85x149.46 x150.22	22546	8.345	523.7	23.2	22.9
2	Drain Bottom slab Concrete	M20	23-10-2019	20-11-2019	150.55x149.70 x151.59	22537	8.467	509.9	22.4	
3	Drain Bottom slab Concrete	M20	23-10-2019	20-11-2019	150.49x149.59 x150.22	22512	8.891	531.5	23.1	

Result:

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PMC Client Contractor

A Mallikarjun N.D
AE(WZ)

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Name of Work : 1. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 1-11-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	25-10-2019
Sample Type	Drain Bottom Slab Concrete
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	1-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Trsting	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Bottom Slab Concrete	M20	25-10-2019	1-11-2019	150x150x150	22500	8.75	385	17.11	17.65
2	Drain Bottom Slab Concrete	M20	25-10-2019	1-11-2019	150x150x150	22500	9.02	407.7	18.12	
3	Drain Bottom Slab Concrete	M20	25-10-2019	1-11-2019	150x150x150	22500	8.89	398.5	17.71	

Result:

Transheight Consultants Pvt. Ltd. Bangalore PMC

Client Contractor

AEE(W)

www.transheight.com
transheight.consultant@gmail.com

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#1192,'A'Block,3rdCross, 5th Main,
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098869 13195,080236 29195

Name of Work : 1. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 22-11-2019
Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	25-10-2019
Sample Type	Drain Bottom Slab Concrete
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 28 Days Compressive Strength
Date of Test	22-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Bottom Slab Concrete	M20	25-10-2019	22-11-2019	150x150x150	22500	9.13	502.36	22.3	22.00
2	Drain Bottom Slab Concrete	M20	25-10-2019	22-11-2019	150x150x150	22500	8.75	497.12	22.1	
3	Drain Bottom Slab Concrete	M20	25-10-2019	22-11-2019	150x150x150	22500	8.85	485.21	21.6	

Result:

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Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work : 1. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 04/11/2019

Lab I'd	**ISO/IEC17025:2005**
Client	**Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.**
Consultant	**Transheight Consultants Private Limited**
Contractor	**B.B Umesh (S.M.L.P Asphats)**
Customer Reference	**BBMP/EE/BTP/WO/110/2019-20**
Source of Sample	**Sample supplied by Agency**
Sample Condition	**Satisfactory**
Date of Reciept	**28-10-2019**
Sample Type	**Drain Side wall Concrete**
Sample Type/Size	**150x150x150 mm**
Sample Grade/ Age	**M20/ 7 Days Compressive Strength**
Date of Test	**04-11-2019**

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Side wall Concrete	M20	28-10-2019	04-11-2019	150x150x150	22500	9.15	401	17.8	17.76
2	Drain Side wall Concrete	M20	28-10-2019	04-11-2019	150x150x150	22500	9.05	398.5	17.7	
3	Drain Side wall Concrete	M20	28-10-2019	04-11-2019	150x150x150	22500	9.2	399	17.7	

Result:

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#1192,'A'Block,3rdCross, 5th Main,
Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work : 1. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date:25-11-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	28-10-2019
Sample Type	Drain Side wall Concrete
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 28 Days Compressive Strength
Date of Test	25-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Side wall Concrete	M20	28-10-2019	25-11-2019	150x150x150	22500	8.9	509.7	22.7	22.55
2	Drain Side wall Concrete	M20	28-10-2019	25-11-2019	150x150x150	22500	9.06	502.5	22.3	
3	Drain Side wall Concrete	M20	28-10-2019	25-11-2019	150x150x150	22500	8.95	510	22.7	

Result:

Transheight Consultants Pvt. Ltd. Bangalore

PMC Client Contractor

AE(W7)

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A'Block,3rdCross, 5th Main,
Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work : 1. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date: 6/11/2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	30-10-2019
Sample Type	Drain Side wall Concrete
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 7 Days Compressive Strength
Date of Test	06-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Trsting	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Side wall Concrete	M20	30-10-2019	06-11-2019	150x150x150	22500	9.08	393.5	17.49	17.01
2	Drain Side wall Concrete	M20	30-10-2019	06-11-2019	150x150x150	22500	8.96	365	16.22	
3	Drain Side wall Concrete	M20	30-10-2019	06-11-2019	150x150x150	22500	8.99	390	17.33	

Result:

Transheight Consultants Pvt. Ltd. Bangalore

PMC Client Contractor

A.M.D
AE(W7)

TRANSHEIGHT
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TRANSHEIGHT CONSULTANTS PVT LTD
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Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work : 1. Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete C1.5)	Date:27-11-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	30-10-2019
Sample Type	Drain Side wall Concrete
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M20/ 28 Days Compressive Strength
Date of Test	27-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	Drain Side wall Concrete	M20	30-10-2019	27-11-2019	150x150x150	22500	9.25	478	21.2	21.67
2	Drain Side wall Concrete	M20	30-10-2019	27-11-2019	150x150x150	22500	9.12	495	22.0	
3	Drain Side wall Concrete	M20	30-10-2019	27-11-2019	150x150x150	22500	9.04	489.5	21.8	

Result:

Transheight Consultants Pvt. Ltd. Bangalore

PMC Client Contractor

Asst Ly. N.D
AE (Hoy)

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TRANSHEIGHT CONSULTANTS PVT LTD
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098869 13195,080236 29195

Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete)	Date: 18-11-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	11-11-2019
Date of Reciept	Satisfactory
Sample Type	CC PAVEMENT
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 7 Days Compressive Strength
Date of Test	18-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	CC PAVEMENT	M30	11-11-2019	18-11-2019	150x150x150	22500	9.12	446.5	19.8	19.88
2	CC PAVEMENT	M30	11-11-2019	18-11-2019	150x150x150	22500	8.52	443.6	19.7	
3	CC PAVEMENT	M30	11-11-2019	18-11-2019	150x150x150	22500	8.85	451.5	20.1	

Result:

PMC Client Contractor

AE(WZ)

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TRANSHEIGHT CONSULTANTS PVT LTD
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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete)	Date: 08-12-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	11-11-2019
Sample Type	CC PAVEMENT
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 28 Days Compressive Strength
Date of Test	08-12-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	CC PAVEMENT	M30	11-11-2019	08-12-2019	150x150x150	22500	9.14	682.54	30.3	30.4
2	CC PAVEMENT	M30	11-11-2019	08-12-2019	150x150x150	22500	9.09	686.14	30.5	
3	CC PAVEMENT	M30	11-11-2019	08-12-2019	150x150x150	22500	9.23	685.64	30.5	

Result:

Transheight Consultants Pvt. Ltd. Bangalore

PMC Client Contractor

A. M.Y. N.D
AE(Asst)

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#1192,'A'Block,3rdCross, 5th Main,
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098869 13195,080236 29195

Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete)	Date: 20-11-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	13-11-2019
Date of Reciept	Satisfactory
Sample Type	CC PAVEMENT
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 7 Days Compressive Strength
Date of Test	20-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	CC PAVEMENT	M30	13-11-2019	20-11-2019	150x150x150	22500	9.14	432.4	19.2	19.62
2	CC PAVEMENT	M30	13-11-2019	20-11-2019	150x150x150	22500	9.05	441.7	19.6	
3	CC PAVEMENT	M30	13-11-2019	20-11-2019	150x150x150	22500	9.21	450.1	20.0	

Result:

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AE(Civil)

www.transheight.com
transheight.consultant@gmail.com

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Sahakarnagar,Bangalore-560092
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Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete)	Date: 11-12-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	13-11-2019
Sample Type	CC PAVEMENT
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 28 Days Compressive Strength
Date of Test	11-12-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	CC PAVEMENT	M30	13-11-2019	11-12-2019	150x150x150	22500	9.05	684.1	30.4	30.3
2	CC PAVEMENT	M30	13-11-2019	11-12-2019	150x150x150	22500	8.99	678.6	30.2	
3	CC PAVEMENT	M30	13-11-2019	11-12-2019	150x150x150	22500	9.01	680.6	30.2	

Result:

PMC Client Contractor

AE(W-I)

www.transheight.com
transheight.consultant@gmail.com

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Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete)	Date: 23-11-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	16-11-2019
Date of Reciept	Satisfactory
Sample Type	CC PAVEMENT
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 7 Days Compressive Strength
Date of Test	23-11-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	CC PAVEMENT	M30	16-11-2019	23-11-2019	150x150x150	22500	9.02	428.5	19.0	19.09
2	CC PAVEMENT	M30	16-11-2019	23-11-2019	150x150x150	22500	8.89	430.4	19.1	
3	CC PAVEMENT	M30	16-11-2019	23-11-2019	150x150x150	22500	8.95	429.9	19.1	

Result:

Transheight Consultants Pvt Ltd Bangalore

PMC Client Contractor

AE(N01)

www.transheight.com
transheight.consultant@gmail.com

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TRANSHEIGHT CONSULTANTS PVT LTD
#1192,'A'Block,3rdCross, 5th Main,
Sahakarnagar,Bangalore-560092
098869 13195,080236 29195

Name of Work : Improvements to roads and drains at Amruthahalli main road, Kariyanna layout and surrounding areas in ward no. 07.

Test Report of Cement Concrete Cubes

IS: 516-1959 (Method of tests for strength of Concrete)	Date: 08-12-2019

Lab I'd	ISO/IEC17025:2005
Client	Bruhat Bengalore Mahanagara Palike (BBMP) , Byatarayanapura, Bengaluru.
Consultant	Transheight Consultants Private Limited
Contractor	B.B Umesh (S.M.L.P Asphats)
Customer Reference	BBMP/EE/BTP/WO/110/2019-20
Source of Sample	Sample supplied by Agency
Sample Condition	Satisfactory
Date of Reciept	11-11-2019
Sample Type	CC PAVEMENT
Sample Type/Size	150x150x150 mm
Sample Grade/ Age	M30/ 28 Days Compressive Strength
Date of Test	08-12-2019

Sl No.	Identification Mark	Grade of Concrete	Date of Casting	Date of Testing	Dimension of Specification	Cross sectional area	Weight of the sample	Failure Load	Compressive Strength	Average Compressive Strength
					mm	Sq.mm	kg	KN	N/mm^2	N/mm^2
1	CC PAVEMENT	M30	11-11-2019	08-12-2019	150x150x150	22500	9.25	686.9	30.5	30.6
2	CC PAVEMENT	M30	11-11-2019	08-12-2019	150x150x150	22500	9.05	687.1	30.5	
3	CC PAVEMENT	M30	11-11-2019	08-12-2019	150x150x150	22500	9.09	689.2	30.6	

Result:

PMC Client Contractor

AE(W) A.E.E.